

## Influencing Factors

- Range of flow diverted
- Percent of river flow diverted
- Flow dispersion (*Is it a sump area?*)
- Sediment loads (bed load and suspended)
- Debris
- Biofouling
- Flooding
- Season of operation
- Operational flexibility
- Fish swimming abilities / Criteria
- Variations in river hydraulics (*Tidal or Peak*)

## More Influencing Factors

- Security
- Site characteristics
- Maintenance
- Accessibility
- Navigation restrictions
- Short and long term riverine habitat degradation
- Construction considerations
- Predation potential
- Local Fishery Resources

## Fish Screen 101

### Fish Facility Considerations

by Darryl Hayes

## Off-Channel Design - "V" Screen

### PROS

- Proven Technology
- Maintenance
- Flood Protection
- Fish Handling
- Upstream on Large Scale
- Simpler Design in
- Access/Damage/Maintenance
- Flow Control (Modeling)
- River Flow/Dispersion
- Bypass Issues
- Navigation
- Flood Control

### CONS

- Isolated from River
- Control (*despite river Q*)
- Excellent Hydraulic
- Complex Facility
- Headloss
- Flood Protection
- Maintenance
- Proven Technology
- Flood Control
- Headloss Issues
- Navigation
- Flow Control (Modeling)
- River Flow/Dispersion
- Bypass Issues
- Navigation
- Flood Control

## Central/Through Delta

### Diverter Issues

- Non Uniform Flows-Tidally Influenced
- Headloss Issues
- Upstream Fish Migration
- Navigation
- Delta Smelt Area
- More Restrictive Screen Criteria
- Fish Bypass/Salvage Requirements
- Flood Control
- Movement of "Resident" Fish
- Egg and Larval Issues
- Maintenance/Fouling Issues